

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 2 of 9

Attorney's Docket No.: 11030-008004

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. - 9. (Canceled)

10. (Currently amended) An operating room voice command system comprising:
a first ~~operating~~ medical device having a first device lexicon of verbal device commands
associated therewith;

a second ~~operating~~ medical device having a second device lexicon of verbal device
commands associated therewith; and

a control system in electrical communication with the first ~~operating~~ medical device and
the second ~~operating~~ medical device, the control system having a voice interface for receiving a
verbal device selection command selected from included in a device selection lexicon, the device
selection lexicon including a first device selection command and a second device selection
command, the control system directing a command signal to a selected device in response to the
verbal device selection command, the selected device being either the first medical device or the
second medical device, ; and the voice interface also for receiving a verbal device command
associated with the selected device, the device command signal corresponding to the device
command, the control system identifying the device command from among the first device
lexicon when the selected device is the first medical device, and the control system identifying
the device command from among the second device lexicon when the selected device is the
second medical device.

11. (Currently amended) The operating room voice command system of claim 10,
wherein the first ~~operating~~ medical device comprises includes an operating room lighting system.

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 3 of 9

Attorney's Docket No.: 11030-008004

12. (Currently amended) The operating room voice command system of claim 11, wherein the first device lexicon comprising includes room lighting commands.

13. (Currently amended) The operating room voice command system of claim 11, wherein the second operating medical device comprises includes an operating room table.

14. (Currently amended) The operating room voice command system of claim 10, wherein the second operating medical device comprises includes an operating room table.

15. (Currently amended) The operating room voice command system of claim 10, wherein the first operating medical device comprises includes at least one of an insufflator, a robot arm for holding and manipulating an endoscope, and a laser.

16. (Previously presented) The operating room voice command system of claim 10, wherein the voice interface identifies speech of a user as a member selected from the group consisting of:

- a device selection command,
- a device command for the selected device, and
- other speech.

17. (Currently amended) The operating room voice command system of claim 16, wherein the voice interface differentiates between other speech and device commands using the lexicon [[of]] associated with the selected device, and wherein the lexicon [[of]] associated with the selected device is stored on a memory of the selected device.

18. (Currently amended) The operating room voice command system of claim 17, wherein the voice interface comprises a master controller with a master controller memory, wherein the first medical device has a first slave controller with a first memory and the second medical device has a second slave controller with a second memory, and wherein the voice

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 4 of 9

Attorney's Docket No.: 11030-008004

interface differentiates between different device selection commands of the device selection lexicon while the device selection lexicon is stored on the master controller memory.

19. (Currently amended) The operating room voice command system of claim 10, wherein the control system identifies a plurality of devices in electrical or wireless communication therewith, the plurality of devices comprising including the first medical device and the second medical device, and wherein the control system determines the device selection lexicon in response to the identified devices, the device selection lexicon including a device selection command associated with each identified device.

20. (Currently amended) The operating room voice command system of claim 19 [[18]], wherein the control system is configured to identify the plurality of devices at a start-up.

21. (Currently amended) The operating room voice command system of claim [[1]] 10, further comprising a third operating room medical device having a third device lexicon of verbal commands associated therewith, the voice interface capable of transmitting command signals to the third medical device corresponding with verbal commands of the third device lexicon when the third medical device is in electrical communication with the control system, wherein the third medical device is not in electrical communication with the control system and the control system does not generate command signals corresponding to the third device lexicon.

22. (Currently amended) The operating room voice command system of claim [[1]] 10, further comprising a video monitor coupled to the control system controller, the video monitor displaying communications with the selected device.

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 5 of 9

Attorney's Docket No.: 11030-008004

23. (New) A method comprising:
receiving a verbal selection command and a verbal control command;
comparing the received selection command to a lexicon of selection commands, the lexicon of selection commands including a first selection command and a second selection command;
transforming the received control command into a control command signal;
transmitting, if the received selection command matches the first selection command, an address of a first device and the control command signal; and
transmitting, if the received selection command matches the second selection command, an address of a second device and the control command signal.

24. (New) The method of claim 23, wherein:
transforming the received control command includes transforming the received control command into a digital representation of the verbal control command; and
the control command signal includes the digital representation of the verbal control command.

25. (New) The method of claim 24, further comprising:
receiving the address of the first device and the control command signal;
comparing the digital representation of the verbal control command to a lexicon of device commands; and
providing to the first device a signal that causes the first device to perform an action corresponding to the verbal control command.

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 6 of 9

Attorney's Docket No.: 11030-008004

26. (New) The method of claim 23, wherein:
transforming the received control command includes comparing the received control command to a lexicon of device commands; and
the control command signal includes a signal that causes one of the first device and the second device to perform an action corresponding to the received control command.

27. (New) The method of claim 23, wherein:
the first selection command includes a name of the first device; and
the second selection command includes a name of the second device.

28. (New) The method of claim 23, wherein:
the first device is one of an operating room table, an operating room lighting system, an insufflator, a robotic arm, an electrocautery device, and a laser.

29. (New) The method of claim 23, further comprising:
providing audible or visual feedback after receiving the verbal selection command or the verbal control command.

30. (New) A method of registering a device with a controller, the method comprising:
providing a controller with an address of a device; and
providing the controller with set of coded phonemes representing a name of the device.

31. (New) The method of claim 30, wherein:
the device is one of an operating room table, an operating room lighting system, an insufflator, a robotic arm, an electrocautery device, and a laser.

Applicant : Yulun Wang et al.
Serial No. : 10/666,922
Filed : September 18, 2003
Page : 7 of 9

Attorney's Docket No.: 11030-008004

32. (New) A method of communicating with a device, the method comprising:
receiving a set of coded phonemes from a device;
associating the set of coded phonemes with an address of the device;
receiving a verbal selection command;
comparing the received selection command to the set of coded phonemes; and
transmitting, if the received selection command matches the set of coded phonemes, a
control signal to the address of the device.